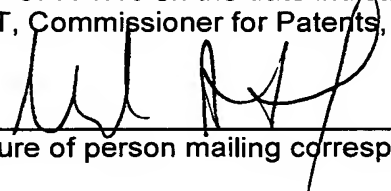


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Mark A. Hixon  
\_\_\_\_\_  
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SECOND SUBMISSION OF ITEMS CONCERNING A SUBMISSION  
UNDER 35 USC 371

U.S. Application No. 10/505,245

International Appln. No. PCT/EP03/01000 filed 01 February 2003

Earliest Priority Date Claimed: 21 February 2002

Title: Method for Producing 1,2-Dichloroethane by Direct Chlorination

Inventors: Michael Benje et al

Assignees: 1. Uhde GmbH  
2. Vinnolit Technologie GmbH & Co. KG

Attorneys: Marshall & Melhorn, LLC

Attorney Docket No: 1-16694

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PTO-1390 (Rev. 12-2004)

Approved for use through 3/31/2007. OMB 0651-0021  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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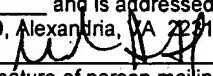
<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		<b>ATTORNEY'S DOCKET NUMBER</b> 1-16694
<b>INTERNATIONAL APPLICATION NO.</b> PCT/EP03/01000		<b>U.S. APPLICATION NO. (If known, see 37 CFR 1.5)</b> 10/505,245
<b>INTERNATIONAL FILING DATE</b> 01 February 2003 (01.02.03)		<b>PRIORITY DATE CLAIMED</b> 21 February 2002 (21.02.2002)
<b>TITLE OF INVENTION</b> Method for Producing 1,2-Dichloroethane by Direct Chlorination		
<b>APPLICANT(S) FOR DO/EO/US</b> Michael Benje et al		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371. 2. <input checked="" type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371. 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input type="checkbox"/> The US has been elected (Article 31) 5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau) b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US) 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  <b>Items 11 to 20 below concern document(s) or information included:</b> 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included 13. <input type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4) 20. <input checked="" type="checkbox"/> Other items or information: Express mail certificate; return receipt card; SB08A; copies of foreign patent documents		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U.S. APPLICATION NO. (if known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO		ATTORNEY'S DOCKET NUMBER	
10/505,245		PCT/EP03/01000		1-16694	
21. The following fees are submitted:					
<input type="checkbox"/> a) Basic national fee.....				\$300.00	\$
<input type="checkbox"/> b) Examination fee.....				\$200.00	\$
<input type="checkbox"/> c) Search fee.....				\$500.00	\$
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$1000.00</b>	\$
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)		RATE	
- 100 =	/50 =			x \$250.00	\$
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).					\$ 130.00
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	- 20 =		x \$50.00	\$	
Independent claims	- 3 =		x \$200.00	\$	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00	\$	
<b>TOTAL OF ABOVE CALCULATIONS =</b>					\$
<input type="checkbox"/> Applicant claims small entity status See 37 CFR 1.27. The fees indicated above are reduced by 1/2.					\$
<b>SUBTOTAL =</b>					\$ 130.00
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).					\$
<b>TOTAL NATIONAL FEE =</b>					\$ 130.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property					\$ 40.00
<b>TOTAL FEES ENCLOSED =</b>					\$ 170.00
130.00 OP					Amount to be refunded: \$
					Amount to be charged: \$
a. <input checked="" type="checkbox"/> A check in the amount of \$ 170.00 to cover the above fees is enclosed.					
b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.					
c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>13-1816</u> . A duplicate copy of this sheet is enclosed.					
d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.					
<b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.					
SEND ALL CORRESPONDENCE TO: Customer Number 001678					
MARSHALL & MELHORN, LLC					
Mark A. Hixon					
Four SeaGate - 8th Floor					
Toledo, Ohio 43604					
Phone: (419) 249-7114					
Fax: (419) 249-7151					
SIGNATURE					
MARK A. HIXON					
NAME					
44,766					
REGISTRATION NUMBER					

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(Signature of person mailing correspondence)  
Mark A. Hixon  
(Typed name of person mailing correspondence)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	]	
MICHAEL BENJE, DIETER JACULI,	]	
INGOLF MIELKE, PETER SCHWARZMAIER,	]	Group Art Unit:
KLAUS KREJCI, JOACHIM SCHUBERT,	]	
and HORST ERTL	]	
	]	
U.S. Serial No. 10/505,245	]	Examiner:
Filing Under 35 U.S.C. 371 in the DO/EO/US	]	
off PCT/EP03/01000 filed 01 February 2003	]	
	]	
For: METHOD FOR PRODUCING 1,2-	]	Attorney Docket 1-16694
DICHLOROETHANE BY DIRECT	]	
CHLORINATION	]	

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December 16, 2004

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SECOND SUBMISSION OF ITEMS CONCERNING A SUBMISSION  
UNDER 35 USC 371

Honorable Sir:

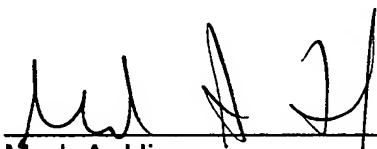
Enclosed herewith is the fully executed Combined Declaration and Power of Attorney document to complete the missing requirements in the above-captioned application which was filed under 35 USC 371 in the U.S. Patent and Trademark Office, PCT Branch, on August 20, 2004.

Also enclosed is an Assignment document from Michael Benje, Dieter Jaculi, Ingolf Mielke, Peter Schwarzmaier, Klaus Krejci, Joachim Schubert and Horst Ertl to Uhde GmbH and Vinnolit Technologie GmbH & Co. KG for recording in the U.S. Patent and Trademark Office, along with an Information Disclosure Statement with copies of the cited foreign patent references and IDS Form SB/08A.

A check in the amount of \$170.00 is attached to cover the requisite fees for late filing of the executed Declaration (\$130.00) and recordation of the Assignment document (\$40.00).

Please charge any additional fees due or credit any overpayment to Deposit Account No. 13-1816.

Respectfully submitted,

  
\_\_\_\_\_  
Mark A. Hixon  
Registration No. 44,766

ATTORNEYS  
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Four SeaGate - 8<sup>th</sup> Floor  
Toledo, Ohio 43604

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